

Machining guidelines for Vesconite

Vesconite and Vesconite Hilube are easily machined to fine tolerances on standard metal working equipment.

Vesconite should not be clamped like a metal, but should be clamped carefully to avoid distortion.

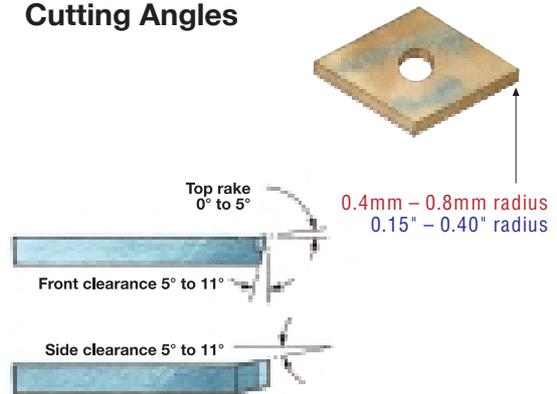
Cooling water should be used where possible to cool the cutting surface.

Take cuts no more than **2 mm (0.1")** deep.

Allow the bush to cool before taking the final cut.

Cutting speeds - maximum of **300 m/min (1000 fpm)**

Cutting Angles



Diameter mm	< 50	50-100	100-150	150-200	200-250	250-300	300-400	400-500
Diameter inches	< 2"	2-4"	4-6"	6-8"	8-10"	10-12"	12-16"	16-20"
RPM	600-2000	500-600	450	350	240	240	160	120

Cutting Feeds *Rough turning:* 0,5 - 0,7 mm per revolution 0.020" - 0.030" per revolution
Finish turning: 0,3 - 0,4 mm per revolution 0.012" - 0.016" per revolution

Machining straight and flanged bushes in small quantities

STEP 1 Cut to length Allow extra length for chucking, parting and facing, usually **25 mm (1")**.

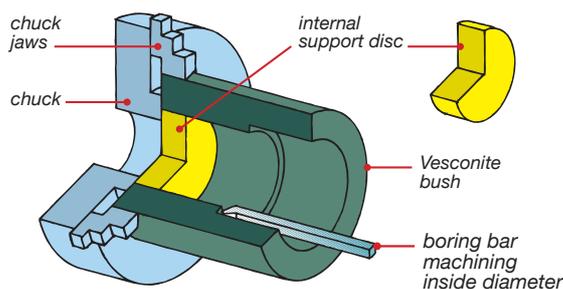
Cut bushing to length with a cut-off saw.

STEP 2 Chuck with internal support disc Set the bush squarely in the chuck.

Use an internal support disc machined to size, made of any available material, approximately **10 to 25 mm thick (1/2" to 1")**.

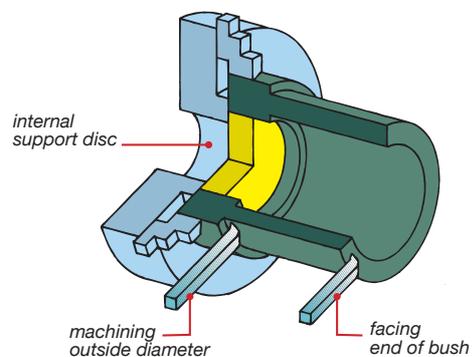
Tighten the chuck lightly - only enough to support the bush. Vesconite should not be clamped like a metal.

STEP 3 Machine inside diameter using a boring bar. Ensure that there is no excessive build-up of shavings inside the bush.



STEP 4 Machine outside diameter with an external turning tool.

Machine flange outside diameter if needed. Face the end of the bush.



STEP 5 Part to length using a parting tool. Ensure that bush does not fall when parted.

